

## Chapter XI.—CONSUMPTION OF FUEL IN MANUFACTURING INDUSTRIES.

**Methods of consumption of fuel.**—Fuel is used in manufacturing in three different ways. First, and most important, it is employed for generating power by means of steam engines or internal-combustion engines; second, to produce heat which is applied directly to materials to transform them or to facilitate their manipulation; and third, as a material which enters into the actual composition of the product.

The only important industries using fuel in the manner last described are the charcoal industry, where by a process of slow partial combustion wood is transformed into charcoal; the coke industry, where coal is transformed into coke by the combustion or distillation of the lighter hydrocarbons; and the gas industry, in which coal and oil form important constituent materials. Besides these, there are the manufactured fuel industry, and the manufacture of bone, carbon, and lamp black, both of which are minor industries.

There are about 35 industries in which, by the combustion of coal or some other form of fuel, heat is applied directly to material in the process of manufacture. Among these the most important are the brick, tile, and pottery, foundry and machine-shop, glass, and blast-furnace industries, the steel works and rolling mills, the various metal smelting industries, the lime and cement industries, petroleum refining, and the salt industry.

**Quantity of different kinds of fuel consumed in all manufacturing industries combined.**—The census inquiry in regard to fuel was designed to ascertain the quantity used in manufacturing processes or for the development of power. Establishments using fuel for lighting or heating purposes only were not asked to report the amount used. On the other hand, when fuel was so used and was also used for the development of power or in the process of manufacture, no attempt was made to separate the quantities used for the different purposes, but the total consumption was reported.

Table 218 shows the quantity of the principal kinds of fuel reported by all manufacturing establishments in 1914 and 1909.

| KIND.  | QUANTITY.       |                 |
|--|-----------------|-----------------|
|  | 1914            | 1909            |
| Anthracite coal, tons of 2,240 pounds.....               | 14, 724, 265    | 14, 339, 220    |
| Bituminous coal, tons of 2,000 pounds.....               | 1 166, 699, 827 | 1 161, 793, 058 |
| Coke, tons of 2,000 pounds.....                          | 32, 539, 325    | 37, 925, 338    |
| Oil, including gasoline, barrels.....                    | 43, 689, 232    | 34, 331, 632    |
| Gas (excluding blast-furnace gas), 1,000 cubic feet..... | 285, 609, 876   | 269, 640, 535   |

<sup>1</sup> Includes bituminous coal used as material in the manufacture of coke.

The figures for bituminous coal cover all that was consumed in the manufacture of coke. Under "coke" are reported both oven and gas-house coke. The greater part of the oil used as fuel was crude petroleum. There were, however, large quantities of the products of petroleum refining—gasoline, naphtha, gas oil, fuel oil, and illuminating oil—reported under this heading. Natural gas formed by far the larger proportion of the total quantity of gas reported. A great many concerns use coal for power or other purposes by converting it into "producer" gas. In such cases the quantity of coal consumed, rather than that of gas made and consumed, was reported. The blast-furnace gas used as fuel is not included in the table.

The census schedule for manufactures called specifically for the five kinds of fuel named in the above table. Charcoal is of some importance as a fuel in manufacturing. In the blast-furnace industry, the leading consumer of charcoal, 29,083,978 bushels, equivalent to 319,924 tons, assuming the average weight of a bushel to be 22 pounds, were used in 1914. A large part of the charcoal manufactured is made in wood distillation plants.

**Fuel consumed in individual industries.**—Statistics as to the amount of the different kinds of fuel consumed in 1914 are shown in Table 220 for each of the 340 industries for which separate statistics can be given. Table 219 shows, for 1914 and 1909, the total cost of fuel, including rent of power, and the quantities of the different kinds of fuel reported by each of the 59 industries showing the largest expenditures for fuel and rent of power.

The quantity of wood consumed as fuel was not a part of the census inquiry for 1914. Many establishments, especially those in the tanning and woodworking industries, use large quantities of spent tanbark slabs, sawdust, etc., of which no account is kept as to quantity or value. In the bakery, clay-working, lime, wood distillation, and other industries that use large quantities of purchased wood for fuel, the cost is included, although the quantity is not shown.

The blast-furnace industry leads in cost of fuel consumed, although a decrease of approximately \$20,000,000 is shown. Coke is the principal fuel used in this industry, the consumption for 1914 being 26,335,234 tons, or 80.9 per cent of the total quantity used in all industries. In the consumption of other kinds of fuel this industry holds a subordinate place. The statistics for gas used in this industry, as shown in the table, do not include blast-furnace gas.

In 1914, 41 blast-furnace establishments reported the utilization of over 1,400,000,000 thousand cubic feet of blast-furnace gas, of which 355,000,000 thousand cubic feet were used in other departments of the plants for steam and power purposes. The quantity and value of this gas are omitted from the table because it was produced and consumed within the industry and was not a primary fuel.

The coke industry was second in importance in the amount expended for fuel. The principal material of this industry is bituminous coal, of which 50,457,474 tons were used in 1914, or 30.3 per cent of the total for all industries. Most of this is simply transformed into coke, as very little power is required in the manufacture of coke.

The steel works and rolling mills ranked third in fuel consumption in 1914, as measured by expenditures for fuel. Much fuel is required in this industry, both for smelting and heating the materials and for generating power for the operation of heavy machinery required for all branches of the industry.

The manufacture of gas requires a large expenditure for coal, coke, and crude oil, which are used in the various processes of manufacture.

Among other large consumers of fuel will be found the brick, tile, and pottery, cement, chemical, cotton-goods, foundry and machine-shop, glass, manufactured ice, malt liquors, paper and wood pulp, petroleum-refining, and metal-smelting industries, and steam-railroad repair shops.

**Fuel consumed, by divisions and states.**—Table 222 (p. 567) presents statistics of the quantity of fuel consumed in each of the states, and also for the geographic divisions.

**CONSUMPTION OF FUEL IN 59 LEADING-FUEL-CONSUMING INDUSTRIES: 1914 AND 1909.**

| INDUSTRY.  | Census year. | Cost of fuel and rent of power. | FUEL CONSUMED.                          |   |                              |                                    |                                      |
|--|--------------|---------------------------------|---|---|------------------------------|------------------------------------|--------------------------------------|
|  |              |                                 | Anthracite coal (tons of 2,240 pounds). | Bituminous coal (tons of 2,000 pounds). | Coke (tons of 2,000 pounds). | Oil, including gasoline (barrels). | Gas <sup>1</sup> (1,000 cubic feet). |
| All industries.....                                | 1914         | \$666,406,709                   | 14,724,265                              | 166,699,827                             | 32,539,325                   | 48,689,232                         | 285,609,876                          |
|  | 1909         | 570,067,824                     | 14,339,220                              | 161,793,058                             | 37,925,338                   | 34,331,632                         | 269,640,535                          |
| Agricultural implements....                        | 1914         | 2,507,394                       | 8,863                                   | 555,271                                 | 104,386                      | 240,060                            | 234,349                              |
|  | 1909         | 2,042,974                       | 15,114                                  | 550,085                                 | 98,819                       | 244,759                            | 313,412                              |
| Automobiles, including bodies and parts.           | 1914         | 4,656,102                       | 31,393                                  | 662,224                                 | 23,560                       | 384,248                            | 2,038,860                            |
|  | 1909         | 1,661,724                       | 17,346                                  | 319,497                                 | 14,282                       | 86,873                             | 385,468                              |
| Boots and shoes, including cut stock and findings. | 1914         | 2,310,903                       | 80,618                                  | 302,766                                 | 3,119                        | 4,371                              | 201,892                              |
|  | 1909         | 1,847,885                       | 45,089                                  | 285,545                                 | 2,124                        | 4,324                              | 128,314                              |
| Brass, bronze, and copper products.                | 1914         | 3,831,780                       | 127,828                                 | 378,306                                 | 75,812                       | 310,910                            | 464,259                              |
|  | 1909         | 3,005,514                       | 206,396                                 | 589,309                                 | 59,152                       | 206,882                            | 248,798                              |
| Bread and other bakery products.                   | 1914         | 9,591,187                       | 470,341                                 | 382,882                                 | 254,313                      | 220,141                            | 4,619,113                            |
|  | 1909         | 7,375,847                       | 383,390                                 | 250,165                                 | 195,971                      | 151,371                            | 2,732,911                            |
| Brick, tile, pottery, and other clay products.     | 1914         | 26,601,525                      | 291,366                                 | 9,170,010                               | 66,872                       | 1,921,256                          | 23,821,028                           |
|  | 1909         | 25,348,623                      | 334,684                                 | 8,799,778                               | 45,347                       | 1,410,740                          | 26,368,992                           |
| Butter, cheese, and condensed milk.                | 1914         | 3,909,540                       | 36,069                                  | 831,549                                 | 7,146                        | 213,359                            | 213,373                              |
|  | 1909         | 2,771,983                       | 47,344                                  | 588,169                                 | 1,069                        | 94,325                             | 215,318                              |
| Canning and preserving.....                        | 1914         | 2,166,400                       | 48,705                                  | 415,732                                 | 2,992                        | 344,764                            | 224,543                              |
|  | 1909         | 1,551,363                       | 37,613                                  | 287,294                                 | 2,156                        | 165,042                            | 130,434                              |
| Carriages and wagons and materials.                | 1914         | 1,842,865                       | 47,516                                  | 379,432                                 | 12,269                       | 64,567                             | 234,191                              |
|  | 1909         | 1,771,984                       | 52,258                                  | 451,304                                 | 18,741                       | 44,176                             | 477,367                              |

<sup>1</sup> Not including blast-furnace gas.

## CONSUMPTION OF FUEL IN 59 LEADING FUEL-CONSUMING INDUSTRIES: 1914 AND 1909—Continued.

| INDUSTRY.   | Census year. | Cost of fuel and rent of power. | FUEL CONSUMED.                          |   |                              |                                    |                         |
|---|--------------|---------------------------------|---|---|------------------------------|------------------------------------|-------------------------|
|   |              |                                 | Anthracite coal (tons of 2,240 pounds). | Bituminous coal (tons of 2,000 pounds). | Coke (tons of 2,000 pounds). | Oil, including gasoline (barrels). | Gas (1,000 cubic feet). |
| Cars and general shop construction and repairs by steam-railroad companies. | 1914         | \$12,482,370                    | 506,696                                 | 5,486,405                               | 79,597                       | 2,508,703                          | 1,829,902               |
|   | 1909         | 8,465,983                       | 438,349                                 | 5,255,477                               | 54,827                       | 982,329                            | 1,116,127               |
| Cars, steam-railroad, not including operations of railroad companies.       | 1914         | 2,749,760                       | 34,978                                  | 698,097                                 | 70,886                       | 294,826                            | 1,221,695               |
|   | 1909         | 2,097,659                       | 38,895                                  | 664,638                                 | 113,013                      | 140,725                            | 552,803                 |
| Cement.....   | 1914         | 20,271,662                      | 226,474                                 | 6,731,438                               | 20,072                       | 2,502,065                          | 5,525,894               |
|   | 1909         | 13,153,180                      | 259,220                                 | 4,815,758                               | 4,103                        | 1,515,697                          | 14,721,568              |
| Chemicals.....  | 1914         | 11,203,672                      | 491,603                                 | 2,667,248                               | 275,440                      | 500,668                            | 2,744,939               |
|   | 1909         | 8,047,443                       | 650,482                                 | 2,161,783                               | 63,522                       | 110,276                            | 1,300,770               |
| Clothing, men's, including shirts.  | 1914         | 2,183,947                       | 49,433                                  | 118,445                                 | 2,354                        | 8,327                              | 498,945                 |
|   | 1909         | 2,240,019                       | 55,770                                  | 89,342                                  | 1,013                        | 8,904                              | 828,622                 |
| Clothing, women's.....  | 1914         | 1,756,814                       | 11,980                                  | 17,958                                  | 439                          | 939                                | 261,561                 |
|   | 1909         | 1,676,832                       | 21,405                                  | 14,897                                  | 76                           | 1,295                              | 377,872                 |
| Coke, not including gas-house coke.   | 1914         | 64,832,328                      | -----                                   | 50,457,474                              | -----                        | -----                              | -----                   |
|   | 1909         | 60,905,891                      | -----                                   | 59,030,005                              | -----                        | -----                              | -----                   |
| Confectionery.....  | 1914         | 1,756,431                       | 81,153                                  | 216,920                                 | 13,805                       | 23,333                             | 688,961                 |
|   | 1909         | 1,308,881                       | 72,630                                  | 169,556                                 | 18,052                       | 5,662                              | 404,626                 |
| Copper, tin, and sheet-iron products.                                       | 1914         | 2,646,518                       | 63,454                                  | 458,576                                 | 20,400                       | 140,330                            | 1,529,565               |
|   | 1909         | 2,252,642                       | 51,448                                  | 334,574                                 | 14,917                       | 85,096                             | 1,337,837               |
| Cotton goods, including cotton small wares.                                 | 1914         | 17,860,740                      | 313,531                                 | 3,634,223                               | 15,537                       | 24,755                             | 42,846                  |
|   | 1909         | 13,985,896                      | 415,604                                 | 3,327,802                               | 20,605                       | 38,792                             | 68,106                  |
| Cutlery and tools, not elsewhere specified.                                 | 1914         | 1,474,246                       | 40,731                                  | 188,715                                 | 9,441                        | 75,472                             | 1,126,445               |
|   | 1909         | 1,143,740                       | 47,253                                  | 188,201                                 | 11,248                       | 77,194                             | 747,731                 |
| Dyeing and finishing textiles, exclusive of that done in textile mills.     | 1914         | 4,771,997                       | 490,587                                 | 896,589                                 | 97                           | 31,869                             | 143,953                 |
|   | 1909         | 4,451,077                       | 593,093                                 | 869,216                                 | 2,576                        | 10,037                             | 64,657                  |
| Electrical machinery, apparatus, and supplies.                              | 1914         | 4,607,861                       | 66,841                                  | 769,260                                 | 26,378                       | 125,523                            | 2,767,856               |
|   | 1909         | 3,056,066                       | 87,096                                  | 632,870                                 | 20,123                       | 104,467                            | 1,761,969               |
| Fertilizers.....  | 1914         | 1,881,809                       | 13,451                                  | 433,359                                 | 2,033                        | 27,851                             | 49,631                  |
|   | 1909         | 1,452,809                       | 20,698                                  | 462,023                                 | 6,148                        | 19,721                             | 111,859                 |
| Flour-mill and gristmill products.  | 1914         | 7,780,149                       | 56,953                                  | 1,809,968                               | 13,941                       | 441,693                            | 1,627,252               |
|   | 1909         | 6,980,675                       | 67,459                                  | 1,880,702                               | 3,347                        | 424,386                            | 3,037,008               |
| Food preparations, not elsewhere specified.                                 | 1914         | 2,236,975                       | 45,276                                  | 387,200                                 | 12,987                       | 72,064                             | 991,297                 |
|   | 1909         | 1,333,497                       | 31,712                                  | 272,392                                 | 9,092                        | 35,832                             | 368,195                 |
| Foundry and machine-shop products.  | 1914         | 28,880,719                      | 519,813                                 | 4,300,909                               | 1,473,656                    | 965,125                            | 12,558,076              |
|   | 1909         | 23,750,838                      | 624,958                                 | 4,220,640                               | 1,919,916                    | 677,828                            | 13,637,341              |
| Furniture and refrigerators..   | 1914         | 3,291,806                       | 62,165                                  | 785,105                                 | 17,565                       | 20,644                             | 267,052                 |
|   | 1909         | 2,571,562                       | 54,427                                  | 728,841                                 | 17,009                       | 7,540                              | 151,463                 |
| Gas, illuminating and heating.  | 1914         | 53,894,193                      | 947,261                                 | 6,078,299                               | 1,084,217                    | 13,482,655                         | 3,372,563               |
|   | 1909         | 39,196,031                      | 898,984                                 | 4,668,096                               | 759,245                      | 11,816,282                         | 605,408                 |
| Glass.....  | 1914         | 10,934,928                      | 41,372                                  | 2,252,268                               | 16,770                       | 867,836                            | 43,336,322              |
|   | 1909         | 7,523,937                       | 17,906                                  | 1,859,001                               | 17,393                       | 468,894                            | 43,711,519              |
| Hosiery and knit goods.....   | 1914         | 2,686,957                       | 118,071                                 | 484,268                                 | 2,849                        | 2,476                              | 40,765                  |
|   | 1909         | 1,970,277                       | 124,420                                 | 441,187                                 | 1,080                        | 2,182                              | 33,861                  |
| Ice, manufactured.....  | 1914         | 11,340,469                      | 213,541                                 | 3,386,275                               | 30,493                       | 1,292,008                          | 7,592,003               |
|   | 1909         | 7,780,397                       | 244,396                                 | 2,430,454                               | 6,872                        | 905,952                            | 4,348,929               |
| Iron and steel, blast furnaces.   | 1914         | 88,586,592                      | 47,060                                  | 1,892,357                               | 26,335,234                   | 80,474                             | 242,218                 |
|   | 1909         | 108,536,921                     | 273,543                                 | 1,166,135                               | 31,649,865                   | 19,446                             | 274,699                 |
| Iron and steel, steel works and rolling mills.                              | 1914         | 55,447,804                      | 558,723                                 | 20,343,767                              | 495,214                      | 3,011,192                          | 81,310,122              |
|   | 1909         | 46,136,725                      | 765,145                                 | 19,759,678                              | 648,637                      | 2,063,736                          | 86,440,031              |
| Iron and steel forgings, not made in steel works or rolling mills.          | 1914         | 1,828,462                       | 18,068                                  | 285,573                                 | 21,737                       | 323,875                            | 961,363                 |
|   | 1909         | 1,087,088                       | 27,231                                  | 241,387                                 | 29,895                       | 165,875                            | 612,046                 |
| Leather, tanned, curried, and finished.                                     | 1914         | 3,757,026                       | 89,140                                  | 1,124,444                               | 2,489                        | 67,252                             | 527,657                 |
|   | 1909         | 3,292,831                       | 98,724                                  | 1,028,215                               | 806                          | 46,129                             | 598,532                 |

## CONSUMPTION OF FUEL IN 59 LEADING FUEL-CONSUMING INDUSTRIES: 1914 AND 1909—Continued.

| Table 219—Continued. | INDUSTRY.  | Cen-<br>sus<br>year. | Cost of fuel<br>and rent<br>of power. | FUEL CONSUMED.  |   |                                    |   | Gas<br>(1,000 cu-<br>bic feet). |
|----------------------|--|----------------------|---------------------------------------|---|---|------------------------------------|---|---------------------------------|
|                      |  |                      |                                       | Anthra-<br>cite coal<br>(tons of<br>2,240<br>pounds). | Bitumin-<br>ous coal<br>(tons of<br>2,000<br>pounds). | Coke (tons<br>of 2,000<br>pounds). | Oil, in-<br>cluding<br>gasoline<br>(barrels). |                                 |
|                      | Lime.....  | 1914<br>1909         | \$3,534,377<br>3,439,986              | 76,141<br>106,929                                     | 677,071<br>674,304                                    | 60,159<br>71,471                   | 82,447<br>33,147                              | 673,853<br>1,424,724            |
|                      | Liquors, distilled.....                            | 1914<br>1909         | 1,832,521<br>1,500,049                | 8,839<br>25,310                                       | 909,617<br>808,089                                    | 1,916<br>7,011                     | 65,141<br>48,258                              | 79,316<br>189,936               |
|                      | Liquors, malt.....                                 | 1914<br>1909         | 10,470,018<br>8,570,892               | 571,588<br>554,029                                    | 2,749,600<br>2,424,798                                | 11,198<br>11,530                   | 725,672<br>527,089                            | 3,314,070<br>3,649,380          |
|                      | Lumber and timber prod-<br>ucts.                   | 1914<br>1909         | 7,461,399<br>5,082,287                | 76,873<br>79,330                                      | 1,417,485<br>1,134,218                                | 4,996<br>5,854                     | 507,546<br>144,499                            | 492,694<br>521,034              |
|                      | Marble and stone work.....                         | 1914<br>1909         | 2,824,182<br>2,545,081                | 54,227<br>49,962                                      | 485,850<br>682,447                                    | 8,279<br>1,149                     | 28,634<br>20,238                              | 151,403<br>133,436              |
|                      | Oil, cottonseed, and cake....                      | 1914<br>1909         | 4,010,450<br>3,144,795                | 5,507<br>8,583  | 1,232,031<br>828,357                                  | 1,762<br>800                       | 248,806<br>379,789                            | 1,519,198<br>372,880            |
|                      | Paint and varnish.....                             | 1914<br>1909         | 1,592,230<br>1,300,297                | 81,566<br>66,597                                      | 301,554<br>299,930                                    | 25,461<br>24,667                   | 23,884<br>19,613                              | 366,695<br>269,347              |
|                      | Paper and wood pulp.....                           | 1914<br>1909         | 24,261,348<br>18,320,266              | 741,177<br>558,677                                    | 6,268,853<br>5,460,314                                | 15,455<br>500                      | 635,329<br>584,536                            | 2,260,562<br>6,485,293          |
|                      | Paving materials.....                              | 1914<br>1909         | 2,098,737<br>202,921                  | 11,559<br>12,184                                      | 665,802<br>54,811                                     | 2,933<br>1,009                     | 127,219<br>3,598                              | 498,951<br>195,153              |
|                      | Petroleum, refining.....                           | 1914<br>1909         | 13,567,284<br>8,376,883               | 1,367,429<br>1,347,519                                | 2,045,485<br>1,264,841                                | 157,621<br>99,595                  | 7,455,918<br>3,479,758                        | 10,993,746<br>7,519,859         |
|                      | Printing and publishing....                        | 1914<br>1909         | 8,605,057<br>7,601,152                | 165,903<br>154,932                                    | 351,395<br>348,698                                    | 4,830<br>2,895                     | 52,849<br>41,265                              | 2,270,571<br>1,633,886          |
|                      | Rubber goods, not else-<br>where specified.        | 1914<br>1909         | 2,744,005<br>1,394,287                | 68,793<br>59,372                                      | 919,066<br>479,906                                    | 348<br>25                          | 8,778<br>1,346                                | 371,283<br>52,173               |
|                      | Salt.....  | 1914<br>1909         | 1,817,573<br>1,590,746                | 85,894<br>108,816                                     | 714,402<br>642,373                                    | 535<br>15                          | 55,443<br>85,074                              | 869,339<br>1,688,731            |
|                      | Shipbuilding, including boat<br>building.          | 1914<br>1909         | 1,418,368<br>1,191,654                | 13,441<br>12,080                                      | 251,820<br>301,501                                    | 10,548<br>10,725                   | 122,929<br>89,916                             | 404,785<br>274,071              |
|                      | Silk goods, including throw-<br>sters.             | 1914<br>1909         | 2,322,684<br>1,687,981                | 1,053,755<br>242,771                                  | 249,963<br>155,256                                    | 48<br>3,601                        | 2,962<br>3,072                                | 148,252<br>49,673               |
|                      | Slaughtering and meat pack-<br>ing.                | 1914<br>1909         | 8,584,177<br>6,700,834                | 226,995<br>193,935                                    | 2,802,845<br>2,512,894                                | 14,340<br>976                      | 1,203,412<br>1,102,550                        | 2,083,407<br>1,091,164          |
|                      | Smelting and refining, cop-<br>per.                | 1914<br>1909         | 13,471,917<br>13,320,517              | 299,480<br>310,953                                    | 812,196<br>1,081,031                                  | 744,256<br>1,008,059               | 2,303,755<br>658,923                          | 10,615<br>3,889                 |
|                      | Smelting and refining, lead.                       | 1914<br>1909         | 3,883,589<br>3,508,126                | 31,958  | 353,484<br>427,479                                    | 389,826<br>351,968                 | 186,556<br>99,157                             | 90,656<br>47,393                |
|                      | Smelting and refining, zinc..                      | 1914<br>1909         | 4,115,854<br>2,218,876                | 655,766<br>432,161                                    | 1,066,525<br>634,932                                  | 92,595<br>52,172                   | 145,811<br>41,595                             | 22,336,089<br>11,676,995        |
|                      | Soap.....  | 1914<br>1909         | 1,618,833<br>1,265,851                | 83,378<br>55,528                                      | 515,356<br>461,206                                    | 2,850<br>1,389                     | 36,150<br>69,347                              | 70,948<br>57,385                |
|                      | Sugar, beet.....                                   | 1914<br>1909         | 2,726,525<br>1,899,468                | 37,235<br>8,981                                       | 682,693<br>565,672                                    | 37,854<br>28,300                   | 803,698<br>554,174                            | 4,789<br>383                    |
|                      | Sugar, refining.....                               | 1914<br>1909         | 3,985,160<br>2,866,371                | 451,310<br>511,640                                    | 875,882<br>542,148                                    | 1,624<br>362                       | 748,533<br>578,633                            | 453                             |
|                      | Wire.....  | 1914<br>1909         | 1,813,172<br>1,640,172                | 30,067<br>84,208                                      | 523,603<br>518,121                                    | 14,329<br>22,280                   | 88,979<br>71,663                              | 415,873<br>217,620              |
|                      | Woolen, worsted, and felt<br>goods, and wool hats. | 1914<br>1909         | 7,525,349<br>6,489,196                | 257,433<br>277,755                                    | 1,608,872<br>1,525,988                                | 1,524<br>6,985                     | 43,207<br>26,611                              | 64,577<br>104,746               |
|                      | All other industries.....                          | 1914<br>1909         | 51,557,969<br>42,425,842              | 2,048,855<br>1,924,928                                | 9,230,065<br>9,129,578                                | 339,938<br>380,959                 | 2,380,943<br>3,534,042                        | 32,807,713<br>23,736,318        |